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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/613,053	07/07/2003	Jun Imamura	54-05A	6718	
23713	7590 02/02/2006		EXAMINER		
GREENLE	E WINNER AND SU	FOX, DAVID T			
4875 PEAR	L EAST CIRCLE				
SUITE 200			ART UNIT	PAPER NUMBER	
BOULDER.	CO 80301	1638			

DATE MAILED: 02/02/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

			Application No.	Applicant(s)	_		
Office Action Summary			10/613,053	IMAMURA ET AL.			
		Ī	Examiner	Art Unit			
			David T. Fox	1638			
Period fo	The MAILING DATE of this communic or Reply	cation appe	ears on the cover sheet with the c	orrespondence address			
WHIC - Exter after - If NO - Failu Any (	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MANAGES of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this communication for reply is specified above, the maximum state to reply within the set or extended period for reply we reply received by the Office later than three months after a patent term adjustment. See 37 CFR 1.704(b).	AILING DA' of 37 CFR 1.136 inication. utory period will vill, by statute, o	TE OF THIS COMMUNICATION  S(a). In no event, however, may a reply be tim  Il apply and will expire SIX (6) MONTHS from the cause the application to become ABANDONED	l. ely filed the mailing date of this communication. D (35 U.S.C. § 133).			
Status							
1)⊠	Responsive to communication(s) filed	1 on <i>07 Jul</i>	v 2003				
2a)□			action is non-final.				
3)	Since this application is in condition for	•		secution as to the merits is			
,—	closed in accordance with the practic		•				
Dispositi	on of Claims						
4)⊠	Claim(s) 1-47 is/are pending in the ap	oplication.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	☐ Claim(s) is/are allowed.						
6)□							
7)	Claim(s) is/are objected to.						
8)🖂	Claim(s) 1-47 are subject to restriction	n and/or el	ection requirement.				
Applicati	on Papers						
9)[	The specification is objected to by the	Examiner.					
	The drawing(s) filed on is/are:			xaminer.			
	Applicant may not request that any object						
	Replacement drawing sheet(s) including t						
11)	The oath or declaration is objected to	by the Exa	miner. Note the attached Office	Action or form PTO-152.			
Priority u	ınder 35 U.S.C. § 119						
_	Acknowledgment is made of a claim fo ⊠ All b)□ Some * c)□ None of:	or foreign p	priority under 35 U.S.C. § 119(a)	-(d) or (f).			
	1. Certified copies of the priority d	ocuments	have been received.				
	2. Certified copies of the priority d	ocuments	have been received in Application	on No. <u>10/451,366</u> .			
	3. Copies of the certified copies of	f the priorit	y documents have been receive	d in this National Stage			
	application from the Internation						
* S	see the attached detailed Office action	for a list o	f the certified copies not receive	d.			
Attachment	r(s)						
	e of References Cited (PTO-892)		4) Interview Summary (				
	e of Draftsperson's Patent Drawing Review (PT nation Disclosure Statement(s) (PTO-1449 or P		Paper No(s)/Mail Da 5) ☐ Notice of Informal Pa				
	No(s)/Mail Date		6) Other:				

Restriction to one of the following inventions is required under 35 U.S.C. 121:

 Claims 1-14, drawn to an isolated restorer protein, classified in class 530, subclass 370, for example.

- II. Claims 15-29, 32, 34-44 and 47, drawn to an isolated nucleic acid encoding an isolated restorer protein, a method for its use to transform plants and produce plants for breeding in a hybrid breeding program, and the resultant transformed plant cells, plants, and progeny and parts thereof including seeds; classified in class 800, subclass 274 or 278 or 303; or class 536, subclass 23.6, for example.
- III. Claim 30, drawn to a method for detecting a gene using a 15mer probe or primer, classified in class 435, subclass 91.2, for example.
- IV. Claim 31, drawn to an isolated anther-specific promoter from a particular restorer gene, and a plant transformed therewith operably linked to a heterologous coding sequence, classified in class 536, subclass 24.1, for example.
- V. Claim 33, drawn to a transformed plant comprising a particular antherspecific promoter operably linked to its native restorer coding sequence, classified in class 800, subclass 287, for example.
- VI. Claim 45, drawn to a method for extracting oil from a plant, classified in class 435, subclass 134, for example.
- VII. Claim 46, drawn to an isolated oil, classified in class 554, subclass 227, for example.

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The inventions are distinct, each from the other because:

Inventions I-IV and VII are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation and different effects. Each requires biochemically and physiologically divergent starting materials and method steps not required by the other.

The isolated protein of Group I is not required by any other group, and could be made by a method other than recombinant gene expression, such as isolation from an untransformed plant or chemical synthesis. The isolated nucleic acid comprising full-length restorer protein-encoding sequences, living plant cells and plants, methods of plant transformation and plant regeneration, and methods of plant breeding of Group II are not required by any other group. The 15 mer probes and primers, and methods of gene hybridization and/or amplification, of Group III are not required by any other group. The isolated anther-specific promoter from a restorer gene, and heterologous coding sequence of Group IV, are not required by any other group. The isolated oil of Group VII is not required by any other group.

Each of Inventions II and IV, and Invention V, are related as mutually exclusive species in an intermediate-final product relationship. Distinctness is proven for claims in this relationship if the intermediate product is useful to make other than the final product (MPEP § 806.04(b), 3rd paragraph), and the species are patentably distinct (MPEP § 806.04(h)). In the instant case, the intermediate product of Group II is deemed to be

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useful as a gene probe or as restorer protein-encoding product for use with any promoter; the intermediate product of Group IV is deemed to be useful as a promoter for the expression of non-restorer proteins such as toxic proteins or antisense RNA; and the inventions are deemed patentably distinct since there is nothing on this record to show them to be obvious variants. Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions anticipated by the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Inventions II and VI are related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case the product as claimed can be used in a materially different process such as the source of desirable genotypes for use in a plant breeding program.

Inventions VI and VII are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by a

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materially different process such as chemical treatment of oil extracted from wild-type or mutant plants.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, classification, and fields of search, restriction for examination purposes as indicated is proper.

Applicants are reminded that different nucleotide sequences, including those encoding different proteins, are structurally distinct chemical compounds and are unrelated to one another. These sequences are thus deemed to normally constitute independent and distinct inventions within the meaning of 35 U.S.C. 121. Absent evidence to the contrary, each such nucleotide sequence is presumed to represent an independent and distinct invention, subject to a restriction requirement pursuant to 35 U.S.C. 121 and 37 CFR 1.141 et seq.

Upon election of a Group above, Applicant is additionally required to select a single nucleotide sequence and corresponding amino acid sequence (when appropriate) for said Group. This requirement is not to be construed as a requirement for an election of species, since each nucleotide and amino acid sequence is not a member of single genus of invention, but constitutes an independent and patentably distinct invention.

Specifically, if Applicant elects Group I, one of the seven amino acid sequences recited in claims 8-13 should also be selected. If Applicant elects Group II, one of the

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nine nucleic acid sequences recited in claims 16-22 should be selected. If Applicant elects Group IV or V, one of the two promoter sequences should be selected.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David T. Fox whose telephone number is 571-272-0795. The examiner can normally be reached on Monday through Friday from 10:30AM to 7:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg, can be reached on 571-272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

January 31, 2006

PRIMARY EXAMINER
GROUP 180- 163 A

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